Q.PEAK DUO XL-G11 SERIES



570-585 Wp | 156 Cells 21.4% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11.3/BFG





Bifacial energy yield gain of up to 20%

Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.



Low electricity generation costs

Q.ANTUM DUO Z combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 21.4%.



A reliable investment

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty¹.



Enduring high performance

Long-term yield security with Anti LeTID and Anti PID Technology², Hot-Spot Protect.



Frame for versatile mounting options

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2400 Pa).



Innovative all-weather technology

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

The ideal solution for:







 $^{^1}$ See data sheet on rear for further information. 2 APT test conditions according to IEC/TS 62804-1:2015 method B (–1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

DETAIL B

DETAIL A 1 ...

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■ Mechanical Specification

Format	95.1 in × 44.7 in × 1.38 in (including frame) (2416 mm × 1134 mm × 35 mm)
Weight	75.8 lbs (34.4 kg)
Front Cover	0.08 in (2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	$2.09-3.98 \times 1.26-2.36 \times 0.59-0.71$ in (53-101 mm \times 32-60 mm \times 15-18 mm), Protection class IP67, with bypass diodes
Cable	$4 \mathrm{mm}^2$ Solar cable; (+) $\geq 29.5 \mathrm{in}$ (750 mm), (-) $\geq 13.8 \mathrm{in}$ (350 mm)
Connector	Stäubli MC4; Stäubli MC4-Evo2; - IP68

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■ Electrical Characteristics

POWER CLASS				570		575		580		585	
MIN	MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5 W/-0 W)										
					BSTC*		BSTC*		BSTC*		BSTC*
	Power at MPP ¹	P_{MPP}	[W]	570	623.5	575	629.0	580	634.4	585	639.9
_	Short Circuit Current ¹	I _{sc}	[A]	13.50	14.77	13.52	14.80	13.55	14.83	13.57	14.86
unu.	Open Circuit Voltage ¹	V_{oc}	[V]	53.50	53.69	53.53	53.72	53.56	53.75	53.59	53.78
Minir	Current at MPP	I _{MPP}	[A]	12.83	14.03	12.87	14.09	12.92	14.14	12.97	14.19
2	Voltage at MPP	V_{MPP}	[V]	44.44	44.43	44.66	44.65	44.88	44.87	45.10	45.09
	Efficiency ¹	η	[%]	≥20.8		≥21.0		≥21.2		≥21.4	

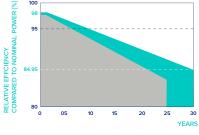
Bifaciality of P_{MPP} and I_{SC} 70 % \pm 5% \bullet Bifaciality given for rear side irradiation on top of STC (front side) \bullet According to IEC 60904-1-2

 $^{1}\text{Measurement tolerances P}_{\text{MPP}} \pm 3\,\%; \, \text{I}_{\text{SC}}, \, \text{V}_{\text{OC}} \pm 5\,\% \,\, \text{at STC: } 1000\,\text{W/m}^{2}; \, ^{*}\text{at BSTC: } 1000\,\text{W/m}^{2} + \phi \times 135\,\text{W/m}^{2}, \, \phi = 70\,\% \pm 5\,\%, \, 25 \pm 2\,^{\circ}\text{C}, \, \text{AM 1.5 according to IEC 60904-3}$ MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT 2

	Power at MPP	P_{MPP}	[W]	429.1	432.9	436.6	440.4	
	Short Circuit Current	I _{sc}	[A]	10.87	10.89	10.91	10.93	
Ē	Open Circuit Voltage	V_{oc}	[V]	50.60	50.63	50.66	50.68	
Ξ	Current at MPP	I _{MPP}	[A]	10.09	10.14	10.18	10.22	
	Voltage at MPP	V _{MPP}	[V]	42.51	42.71	42.89	43.08	

²800 W/m², NMOT, spectrum AM 1.5

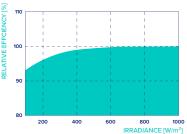
Qcells PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.95% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective





Typical module performance under low irradiance conditions in comparison to STC conditions (25 $^{\circ}$ C, 1000 W/m²).

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*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

■ Properties for System Design

Maximum System Voltage	$V_{\rm sys}$	[V]	1500	
Maximum Series Fuse Rating		[A DC]	25	
Max. Design Load, Push/Pull ³		[lbs/ft²]	75 (3600 Pa)/33 (1600 Pa)	
Max. Test Load. Push/Pull ³		[lbs/ft²]	113 (5400 Pa)/50 (2400 Pa)	

³ See Installation Manual

PV module classification	Class II
Fire Rating based on ANSI/UL 61730	TYPE 29 ⁴
Permitted Module Temperature	−40°F up to +185°F
on Continuous Duty	(-40°C up to +85°C)

⁴ New Type is similar to Type 3 but with metallic frame

UL 61730, CE-compliant, IEC 61215:2016. IEC 61730:2016, U.S. Patent No. 9,893,215









